

CLAIMS

1. A data processing apparatus comprising:

means for extracting a necessary packet from each
5 of a plurality of transport streams and reconstructing the
extracted packets to one transport stream;

means for executing limited reception from the
reconstructed one transport stream and separating the
necessary packets; and

10 means for decoding each packet separated from the
reconstructed one transport stream.

2. A data processing apparatus according to claim
1, wherein packet information of SI (Service Information)
is extracted from each of said plurality of transport streams,
15 a new SI packet is reconstructed from the information of
the packet of the SI obtained from each of said plurality
of transport streams, and said reconstructed new SI packet
is added to said reconstructed one transport stream.

3. A data processing apparatus according to claim
20 1, wherein packet information of SI (Service Information)
is extracted from each of said plurality of transport streams,
the information of the packet of the SI obtained from each
of said plurality of transport streams is sent to processing
means, and a process for limited reception is executed.

25 4. A data processing apparatus comprising:

means for extracting information of a packet of
SI (Service Information) from each of a plurality of

transport streams and executing a process for limited reception by using the information of the packet of the SI obtained from each of said plurality of transport streams;

means for executing the common limited reception with respect to each of said plurality of transport streams and separating the necessary packets; and

means for decoding each packet separated from each of said transport streams.

5. A data processing apparatus according to claim 4, wherein said means for separating the necessary packets is time-divisionally used with respect to said plurality of transport streams.

6. A digital broadcasting receiver comprising:

means for extracting a necessary packet from each of a plurality of transport streams and reconstructing the extracted packets to one transport stream;

means for executing limited reception from the reconstructed one transport stream and separating the necessary packets; and

means for decoding each packet separated from the reconstructed one transport stream.

7. A data processing method comprising the steps of:

extracting a necessary packet from each of a plurality of transport streams and reconstructing the extracted packets to one transport stream;

executing limited reception from said reconstructed one transport stream and separating the

necessary packets; and

decoding each packet separated from said
reconstructed one transport stream.

8. A data processing method according to claim 7,
5 wherein packet information of SI (Service Information) is
extracted from each of said plurality of transport streams,
a new SI packet is reconstructed from the information of
the packet of the SI obtained from each of said plurality
of transport streams, and said reconstructed new SI packet
10 is added to said reconstructed one transport stream.

9. A data processing method according to claim 7,
wherein packet information of SI (Service Information) is
extracted from each of said plurality of transport streams,
the information of the packet of the SI obtained from each
15 of said plurality of transport streams is sent to processing
means, and a process for limited reception is executed.

10. A data processing method comprising the steps of:
extracting packet information of SI (Service
Information) from each of a plurality of transport streams
20 and executing a process for common limited reception by using
the information of the packet of the SI obtained from each
of said plurality of transport streams;

executing the limited reception with respect to
each of said plurality of transport streams and separating
25 the necessary packets; and

decoding each packet separated from each of said
transport streams, respectively.

11. A data processing method according to claim 10, wherein said means for separating the necessary packets is time-divisionally used with respect to said plurality of transport streams.

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